AT-7231B
Revised 02-98
Catalog Section 40
(00-02-0099)

# Engine Throttle Controller

## MURPHYMATIC® AT-67207

- **Automatically adjusts engine speed to meet demands of: pressure, level, load and temperature.**
- **Speed changes made slowly and smoothly.**
- **Saves fuel, engine wear, horsepower and labor.**
- **Perfect for warm-up and cool-down on automated systems.**

### Description

The AT-67207 is a completely reliable heavy duty device developed specifically to automatically control engine speed to meet system demand. Low current, high torque, solid state switching and electronic clutch make it ideal for all automatic and semiautomatic engine systems. Used with the appropriate Murphy SWICHGAGE®, near constant pressure, level and load can be maintained. Check with our engineers for help with other applications where speed control can improve your system.

### Applications

**Pressure**
- City Water Systems.
- Water Flood Injection.
- Sprinkler Lateral Changes.
- Make-up if a “Gang Pump” stops.
- Multiple Hose-reel Irrigation Systems.

**Level**
- Water or oil storage tanks.
- Waterflood tanks.
- Sewer disposal systems.
- Flood control catch basins.

**Temperature**
- Multi-engine cooling systems.
- Air conditioned chilled water systems.

**Engine load**
Empty or fill reservoirs with a lower horsepower engine—fast when head is high—slow when head is low.

**Fully adjustable stepper kit**
Meters signal in adjustable pulses. Prevents surging on critical applications.

### Specifications

**Voltage:** 12 VDC or 24 VDC, positive or negative ground (specify).

**Current:** 500 mA (1/2 amp).

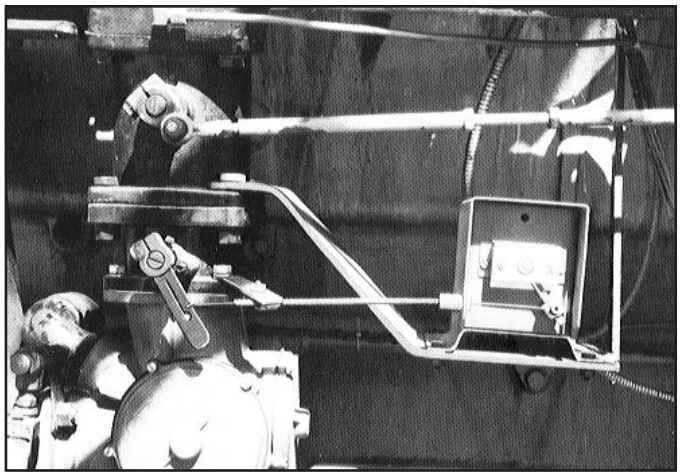
**Torque:** 25 inch pounds.

**Sealed limit switches:** Factory adjusted, controls maximum travel.

**Linkage adjustment on lever arm—5 holes:** Adjusts travel: 1-3/16 in. (30 mm); 1-11/16 in. (43 mm); 2 in. (51 mm); 2-1/4 in. (57 mm) approximately.

**Overall Dimensions:** 7 in. (178 mm) D x 6 in. (152 mm) W x 5 in. (127 mm) H.

**Net Weight**: 5 lb. (2.27 kg)



**AT-67207 —** A MURPHY SWICHGAGE® * constantly monitors pressure, level, temperature or load. Adjustable high and low contacts on SWICHGAGE® are set slightly above and below desired operating point. When demand changes, pointer touches appropriate high or low contact and signals speed change. AT-67207 controller responds only so long as contact is made — Controller stops immediately when contacts separate. Slow, smooth action prevents “hunting” or “surging” on normal applications. Stepper kit, listed below, is available for critical applications.

*Mercury tube or snap-action switches are not suitable for this type control — A Murphy SWICHGAGE® or equal must be used.

**Model STR-71204** is offered for applications where slight changes in engine RPM make significant change is pressure, level, load, ect. These conditions can be due to close differential requirements, constant speed, automated pumps and/or valves on same line and where engine and pump are simply oversized for application. The stepper kit is a solid state device that meters SWICHGAGE® signal to controller in pulses. Both “on” and “off” time periods are inde-pendently adjustable to meet the most critical requirement.

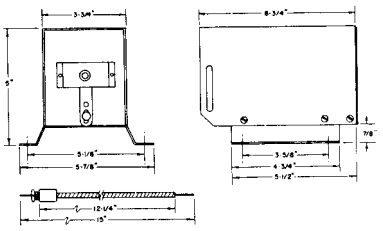
**Model STR-71204-N**, 12/24 VDC. Negative Ground.

For more information, recommendations and quotations contact our engineering dept.

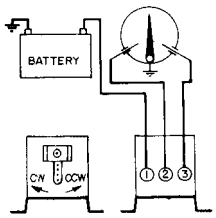
The AT-67207 can enhance features of our SELECTRONIC® Micro-Controller units by allowing features such as:

**1.** Warm-up RPM Set point.
**2.** Minimum RPM Set point.
**3.** Maximum RPM Set point.
**4.** Preset Operating RPM Set point.
**5.** Auto Throttling To Match Flows (AS Needed in Flood Control Applications).
**6.** Maintaining System Pressure (As Needed in Booster Station Application).
**7.** Adjustable Rate Of Change In RPM (Allowing Fine Tuning Of Overall System).

For more information, recommendations and quotations contact our engineering dept.



**AT-67207**




**STR-71204**